

**LUCAS MEYER**  
the lecithin people

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## LECITHINS AND PHOSPHOLIPIDS IN PHARMACY



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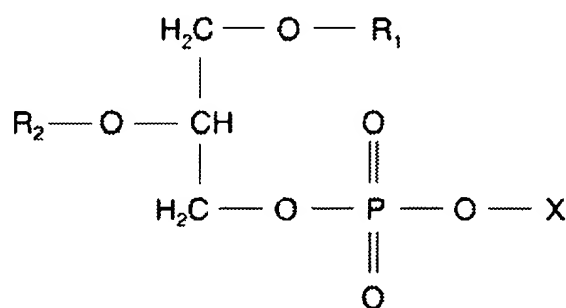
Phospholipids are the main building blocks of all cell membranes - in human beings, animals, plants and micro-organisms. As such they have two important physico-chemical properties which are being put to increasing use in pharmaceutical technology:

1. They are amphiphilic molecules with excellent emulsifying properties.
2. Under certain conditions, especially with respect to concentration and temperature, phospholipids spontaneously form membrane structures (lamellar, liposomal, micellar).

Together with the fact that the physiological tolerance of natural phospholipids is generally excellent and that they are metabolized without difficulty, this explains why the range of application increases from day to day.

The knowledge of phospholipids and its various potential applications is still rather unknown in pharmaceutical technology and development. Therefore manufacturers of starting materials have the special task to advise on development and applications. Our products include vegetable (mainly soybean) and animal phospholipid mixtures (egg) with greatly differing compositions and properties and also hydrogenated products that are especially useful for their resistance to oxidation.

Our production and quality control methods have proved to be efficient for decades. Only carefully selected and safe grades of raw materials are used. By using only enzymatic modification and largely non-toxic solvents for extraction, cleaning, fractionation and chromatography we ensure that the end products may be described as entirely natural. Contamination with harmful substances from the raw materials is virtually impossible, and residual solvent levels are well below the legal limits.



R1, R2 = natural fatty acids from soy or egg (possibly hydrogenated)

X = H, choline, ethanolamine, inositol, serine

## PRODUCT RANGE - SOYBEAN

Product	Definition	Application
Epikuron 100	Soybean lecithin, deoiled, powdered	Aerosols, ointments, suppositories, tablets, tonics
Epikuron 100 H	Soybean lecithin, deoiled and hydrogenated, powdered	Liposomes, ointments, pharmaceutical drugs
Epikuron 130	Soybean lecithin, deoiled, min. 30% PC, powdered	Ointments, and other dermatological products, suppositories, tablets
Epikuron 135 F	Soybean lecithin fraction, transparent, min. 35% PC, fluid	Enteric nutrition, soft gelatine encapsulation, suppositories
Epikuron 145 V	Soybean lecithin fraction, deoiled, min. 45% PC, waxy	Aerosols, crystalline suspensions, emulsions, fat infusions, liposomes, ointments, pharmaceutical drugs
Epikuron 170	Egg lecithin, deoiled, min. 67% PC,	Dermatological products, fat infusions, pharmaceutical preparations
Epikuron 200	Phosphatidylcholine, purified from soybean, min. 95% PC, waxy	Aerosols, fat infusions, liposomes, mixed micelles, ointments

## PRODUCT RANGE - EGG

Product	Definition	Application
Ovothin 120	Natural mixture of egg lecithin and egg oils, highly viscous	Dermatological products, pharmaceutical preparations
Ovothin 160	Egg lecithin, partially defatted, min. 60% PC, waxy	Dermatological products, pharmaceutical preparations
Ovothin 170	Egg lecithin, deoiled, min. 67% PC	Dermatological products, fat infusions, pharmaceutical preparations
Ovothin 180	Egg lecithin, fractionated, min. 78% PC	Dermatological products, fat infusions, pharmaceutical preparations

\* PC = phosphatidylcholine

\*\* TPN = total parenteral nutrition (fat infusion solutions)

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